XT-5871

USER'S MANUAL

Features

- 0.28 mm Dot Pitch
- 1280 x 1024, Non-Interlaced
- 120 Hz Refresh Rate
- Power Saving Operation (VESA DPMS)
- Anti-Glare Screen
- Full Screen Display
- Digital Controls
- Low Radiation
- Plug and Play
- Three-Year Warranty

Part #MAN119 Rev. 1.0 CX1566

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IMPORTANT

- *Read all these instructions. Save for later use.*
- *Do not expose this unit to rain or moisture.*
- *Do not use this unit with an extension cord or any outlet other than a three prong outlet.*
- *Do not open the cabinet. There are no user serviceable components inside. Refer all servicing to a qualified technician.*
- *Do not cover the vent holes in the case. These are to allow for ventilation.*
- *Do not insert sharp objects into the monitor. They may cause accidental fire or failure.*
- *The socket-outlet should be installed near the equipment and should be easily accessible.*
- *Follow all instructions and warnings on the product.*
- *Do not place the product on any unstable surfaces.*
- *Operate from power source indicated on the label.*
- *Do not allow anything to rest on the power cord.*
- *Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:*

  A. When the power cord or plug is damaged or frayed.
  B. If liquid has been spilled into the product.
  C. If the product has been exposed to rain or water.
  D. If the product does not operate normally when the operating instructions are followed. Adjust only those controls that are covered by the operating instructions since improper adjustment of the other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.
  E. If the product has been dropped or the cabinet has been damaged.
  F. If the product exhibits a distinct change in performance, indicating a need for service.

Section 1 - General Information

Congratulations on purchasing a MaxTech 15-inch high resolution color monitor. The monitor uses one of the finest CRTs available in the industry. The 0.28 mm dot pitch non-glare tube provides a crisp and vivid color display for all popular applications. The monitor complies with the MRP-I standard to reduce electro-magnetic emissions. Advanced electronics and digital controls make it the perfect monitor for applications ranging from home computing to business presentations.

The monitor is compatible with VGA, SVGA, and XGA display adapters. It operates at resolutions ranging from 640 x 350 to 1280 x 1024 with unlimited colors. The monitor is PnP (Plug and Play) compliant to simplify setup and configuration in Windows 95 or other PnP operating systems.

1.1 Precautions When Using the Monitor

When setting up and using your monitor, pay special attention to the following:

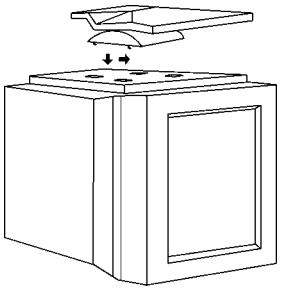
- To eliminate eye fatigue, do not use your monitor against a bright background or where sunlight or other light sources will shine directly on the monitor.
- Your monitor should be placed just below eye level for optimum viewing.
- *Allow adequate ventilation around the monitor so that heat from the monitor can properly dissipate.*
- *Neither the monitor itself nor any other heavy object should rest on the power cord. Damage to a power cord can cause fire or electrical shock.*
- *Keep the monitor away from high capacity transformers, electric motors and other strong magnetic fields.*
- *Do not use your monitor in a damp, dusty or dirty area.*
- *Handle the monitor with care when transporting.*
- *Unplug the monitor during electrical storms*

Section 2 - Installation

2.1 Attaching the Base

- Carefully place the monitor on its side or top (see Figure 2-1).
- Insert the hooks on the swivel base into the slots in the bottom of the monitor. Push down and forward on the base until the it snaps into place.
- Place the display upright in an appropriate location.

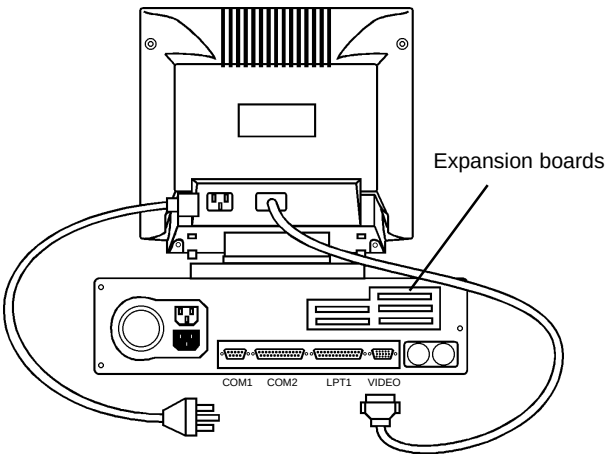
Figure 2-1 Connecting the Base



2.2 Connecting the Cable

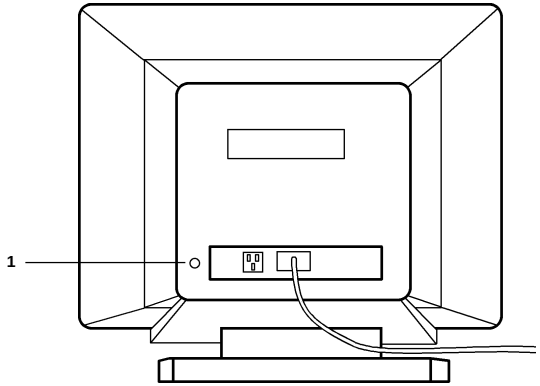
- Plug the 15-pin male connector on the video cable into the output connector on the rear of your computer system. The video output connector on your computer may be either in a location similar to Figure 2-2 or on an expansion board. Secure the cable to the computer using the thumbscrews on the 15-pin connector.
- Attach the power cord to the monitor and plug it into an AC outlet.
- The monitor is now ready for use.

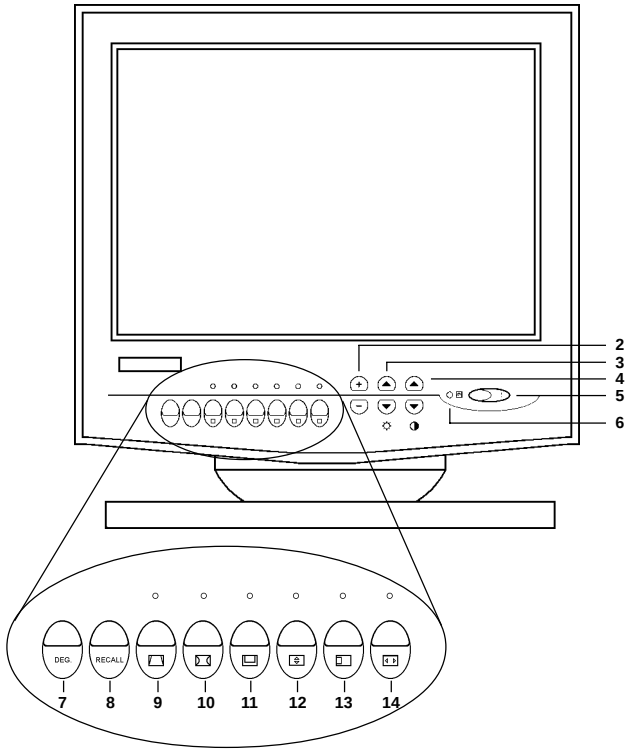
Figure 2-2 Monitor Connections



Section 3 - Monitor Controls and LEDs

Figure 3-1 Controls and LEDs





1. **Master Power** (On rear): Push to provide power to the monitor. This switch should be left ON for daily operation. Use the front panel On/Off control **(5)** to turn the monitor display on and off.
2. **Adjust:** Press plus **(+)** to increase the setting for the selected control **(9** through **14)**. Press minus **(-)** to decrease the setting.
3. **Brightness Control:** Adjusts the display brightness.
4. **Contrast Control:** Adjusts the contrast of the display.
5. **ON/OFF:** Press this switch to turn the monitor display on, press again to turn the monitor display off.
6. **Power Saving Indicator:** When lit, the monitor is in the DPMS OFF mode.
7. **Degauss:** Press to clear color impurity of the display.
8. **Recall:** Press to reset the factory defaults for the display.
9. **Trapezoid:** Select to adjust the angle of the sides of the display to make the display rectangular.
10. **Pincushion:** Select to adjust the curvature of the sides of the display to make the sides straight.
11. **Vertical-Position:** Select to adjust the vertical position
12. **Vertical-Size:** Select to adjust the display height
13. **Horizontal-Position:** Select to adjust the horizontal position
14. **Horizontal-Size:** Select to adjust the display width.

Section 4 - Troubleshooting

No picture, no LEDs lit.

- Check that the AC cord is plugged into an outlet and the monitor.
- Turn on the Master Power switch.

No picture, one of the selection LEDs is lit.

- Check that video cable is connected completely.
- Adjust brightness and contrast controls.
- Check connector for bent pins.

No picture, power saving indicator (2) on.

- Monitor is in DPMS OFF mode. Press a key or move the mouse.
- Monitor is off. Press front panel On/Off switch.
- Check connector for bent pins.

Image is not centered

- Adjust Vertical Position and Horizontal Position controls.

Appendix A - Specifications

Picture Tube

Size	15-inch diagonal
Dot pitch	0.28mm

Horizontal Freq	30-66KHz
Vertical Freq.	50-120 Hz
Resolution (Max.)	1280 x 1024
Video Dot Rate	100 MHz
Data Area	10.2 in. x 7.7 in.

Maximum Refresh Rates

Resolution	Refresh (Vertical) Frequency
640 x 480	120Hz
800 x 600	100 Hz
1024 x 768	75 Hz
1280 x 1024	60 Hz

Input voltage	110~240VAC, 50/60 Hz
Front controls	On/Off, Brightness, Contrast, Horizontal-Size, Horizontal-Position, Vertical-Size, Vertical-Position, Pincushion, Trapezoid, Recall, Degauss
Rear Control	Master Power
Power Consumption	80 W (Max.)

Power saving — *Display Power Management Signaling (DPMS)*

SUSPEND/STANDBY mode	20W (Max.)
OFF mode	1W (Max.)

Low Radiation Standard	MPR-I
Plug and Play	DDC1, DDC2B

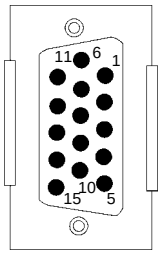
Operating Environment	Temperature	5°~35°C
	Humidity	30~80%

Connector	15 Pin D-Sub
Dimensions	12.88 x 14.13 x 15.63 in.

Specifications subject to change without notice.

Appendix B - Video Cable Pinout

Figure B-1 Pin Layout and Pin Assignment Chart



PIN	SIGNAL	PIN	SIGNAL
1	Red	9	No Pin
2	Green	10	Ground
3	Blue	11	Ground
4	No Pin	12	SDA
5	Ground	13	Hor. Synch.
6	Red Return	14	Vert. Synch
7	Green Return	15	Data Clock (SCL)
8	Blue Return		

Appendix C - Power Saving Modes (DPMS)

VESA Display Power Management Signaling (DPMS) defines a method for a computer to signal the monitor to reduce its power consumption when idle. DPMS features must be supported by both the computer and the monitor. The monitor supports DPMS “SUSPEND” “STANDBY” and “OFF” modes. Computer support of DPMS requires the use of a DPMS compliant video card driver.

The monitor enters DPMS STAND-BY or SUSPEND mode when the computer turns off either the Horizontal or Vertical Synchronization signal. These power-saving modes reduce the monitor’s power consumption to 20W. While in these modes the selection indicator LEDs flash consecutively from right to left and then back. When the synchronization signals are re-enabled the monitor returns to normal operation.

The monitor enters DPMS OFF mode when the computer turns off both the Horizontal and Vertical Synchronization signals. This mode reduces the monitor’s power consumption to 1W. When the synchronization signals are re-enabled the monitor returns to normal operation.

Appendix D - Three Year Warranty

MAXTECH warrants to the original buyer of this product against defects in

material and workmanship for three years from the date of purchase.

Except as specified below, this warranty covers all defects in material or workmanship in this product. The following are not covered by the warranty:

1. Any product which is not distributed in North America by MAXTECH or which is not purchased in North America from an authorized MAXTECH Dealer.
2. Any product on which the serial number has been defaced, modified or removed.
3. Damage, deterioration or malfunction resulting from:
   a. Accident, misuse, abuse, neglect, fire, water, lightning or other acts of nature, commercial or industrial use, unauthorized product modification, or failure to follow instructions supplied with the product.
   b. Repair or attempted repair by anyone not authorized by MAXTECH.
   c. Any shipment of the product (claims must be presented to the carrier).
   d. Removal or installation of the product.
   e. Any other cause which does not relate to a product defect.
4. Cartons, carrying cases, batteries, external cabinets, magnetic tapes or any accessories used in connection with the product.

MAXTECH will pay all labor and material expenses for covered items, but we will not pay for the following:

1. Removal or installation charges.
2. Costs of initial technical adjustments (set-up), including adjustment of user controls.
3. Payment of shipping charges.

HOW TO OBTAIN WARRANTY SERVICE

In the event the product requires service, call the MaxTech Service Center at (562) 921-4438 between 9:00 a.m. and 6:00 p.m. (PST Monday through Friday). When you are instructed by the Technical Support Representative to return the product to MaxTech for repair, you will be given an RMA (Return Merchandise Authorization) number. You ***must have an RMA Number to return the product for service***. Use the following procedure to return the product to MaxTech:

1. Return the product in its original package and packing (if possible).
2. Be sure to include your name, address, day-time telephone number, RMA number, and a brief description of the problem (also enclose a check for out-of-warranty repair).
3. After wrapping the package securely for shipping, print your name, return address and the RMA # **clearly** on the outside of your package.
4. Ship the unit prepaid via UPS or the U.S. Postal Service to the address provided by the technician when you call. We recommend that the unit be insured.

This warranty is valid for products sold in North America only. Contact your local authorized distributor or dealer for the warranty offered in other areas.

All warranty services must be performed by Authorized Service Centers. There are no user serviceable parts inside the unit. Do not remove any components or attempt to service the unit by any unauthorized service center. This warranty is

voided if the product has been abused, misused, modified, or repaired by an unauthorized service center.

LIMITATION OF IMPLIED WARRANTIES

All implied warranties, including warranties of merchantability and fitness for a particular purpose, are limited in duration to the length of this warranty.

EXCLUSION OF DAMAGES

MAXTECH'S liability for any defective product is limited to the repair or replacement of the product, at our option. MAXTECH shall not be liable for:

1. Damage to other property caused by any defects in this product, damages based upon inconvenience, loss of use of the product, loss of time, commercial loss; or
2. Any other damages, whether incidental, consequential or otherwise.

Some states do not allow limitations on how long an implied warranty lasts and/or do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations and exclusions may not apply to you.

HOW STATE LAW RELATES TO THE WARRANTY

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Appendix E - Notices

FCC Class B Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and the receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio / TV technician for help

Notice: Shielded cables, if any, must be used in order to comply with the emission limits. Any change or modification not expressly approved by the Grantee of the equipment authorization could void the user's authority to operate the equipment.

Canadian DOC Compliance Statement

This equipment does not exceed Class B limits for radio noise emissions for a digital apparatus, set out in the Radio Interference Regulations of the Canadian Department of Communications. Operation in a residential area may cause unacceptable interference to radio and TV reception requiring the owner or operator to take whatever steps necessary to correct the interference.

Cet équipement ne dépasse pas les limits de Class B d'émission de bruits radioélectriques pour les appareils numériques, telles que prescrites par le Règlement sur le brouillage radioélectrique établi par le ministère des Communications du Canada. L'exploitation faite en milieu résidentiel peut entraîner le propriétaire ou l'opérateur à prendre dispositions nécessaires pour en éliminer les causes.

Disclaimer, Copyright, And Other Notices

The information contained in this manual has been validated at the time of this manual's production. The manufacturer reserves the right to make any changes and improvements in the product described in this manual at any time and without notice. Consequently, the manufacturer assumes no liability for damages incurred directly or indirectly from errors, omissions or discrepancies between the product and the manual.

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